

AMENDMENTS TO THE CLAIMS:

Please cancel claims 1-5 and 13-35, without prejudice or disclaimer of the subject matter thereof; amend claims 6, 7, 9, and 36-39; and add new claims 40-47, as listed in the following listing of the claims, which replaces all prior versions and listings of claims in the application:

1-5. (Canceled).

6. (Currently Amended) A method for executing an interaction flow model, comprising:

receiving an event;

categorizing the received event;

non-deterministically identifying a situation that matches the categorized received event; and

executing one or more tasks for the situation, the execution of the one or more tasks including ~~one of an~~ interpretation of a business domain model to generate a recommendation for a business action. ~~and execution of a method of an object.~~

7. (Currently Amended) A method for executing an interaction flow model as recited in Claim 6, wherein the receiving the event is by way of at least one of a distributed information service, ~~and a user~~ interface, and an application interface.

8. (Original) A method for executing an interaction flow model as recited in Claim 6, wherein the categorizing is configured to generate a set of categories for previously handled events.

9. (Currently Amended) A method for executing an interaction flow model as recited in Claim 6, wherein the executing one or more tasks for the situation includes:

invoking one of an optimization engine, an inference engine, and a constraint satisfaction engine to interpret the business domain model, the business domain model including one of a rule base model, an optimization model, and a constraint model;

wherein the interpretation of the business domain model ~~can~~ includes at least one of an infer action, a search with constraints action, an interact action, an optimize action, and a decide action.

10. (Original) A method for executing an interaction flow model as recited in Claim 9, wherein the interpretation of the rule base model includes executing the inference engine to act upon the rule base model and produce a number of constraints.

11. (Original) A method for executing an interaction flow model as recited in Claim 10, wherein the number of constraints are communicated to the constraint satisfaction engine, the constraint satisfaction engine being configured to search for a set of objects that match the number of constraints as well as constraints of the constraint model.

12. (Original) A method for executing an interaction flow model as recited in Claim 11, wherein the set of objects are communicated to the optimization engine, the optimization engine communicating with the optimization model so as to produce an optimized object that is recorded, the recording of the optimized object being indicative of the handling of the identified situation.

13-35. (Canceled).

36. (Currently Amended) A computer readable media having program instructions for executing an interaction flow model, comprising:

- program instructions for receiving an event;
- program instructions for categorizing the received event;
- program instructions for non-deterministically identifying a situation that matches the categorized received event; and
- program instructions for executing one or more tasks for the situation, the execution of the one or more tasks including ~~one of an~~ interpretation of a business domain model to generate a recommendation for a business action, ~~and execution of a method of an object.~~

37. (Currently Amended) A computer readable media having program instructions ~~method~~ for executing an interaction flow model as recited in Claim 36, wherein receiving the event is by way of one of a ~~the~~ distributed information service and a ~~the~~ user and application interface.

38. (Currently Amended) A computer readable media having program instructions ~~method~~ for executing an interaction flow model as recited in Claim 36, wherein the categorizing is configured to generate a set of categories for previously handled events.

39. (Currently Amended) A computer readable media having program instructions ~~method~~ for executing an interaction flow model as recited in Claim 36, wherein the program instructions for executing one or more tasks for the situation includes:

program instructions for invoking one of an optimization engine, an inference engine, and a constraint satisfaction engine to interpret the business domain model, the business domain model including one of a rule base model, an optimization model, and a constraint model;

wherein the interpretation of the business domain model ~~can~~ includes at least one of an infer action, a search with constraints action, an interact action, an optimize action, and a decide action.

40. (New) A computer readable media having program instructions for executing an interaction flow model as recited in Claim 39, wherein the interpretation of the rule base model includes executing the inference engine to act upon the rule base model and produce a number of constraints.

41. (New) A computer readable media having program instructions for executing an interaction flow model as recited in Claim 40, wherein the number of constraints are communicated to the constraint satisfaction engine, the constraint satisfaction engine being configured to search for a set of objects that match the number of constraints as well as constraints of the constraint model.

42. (New) A method for executing an interaction flow model as recited in Claim 6, wherein the received event includes at least one of a business transaction and a previously identified situation.

43. (New) A method for executing an interaction flow model as recited in Claim 6, wherein the business action recommendation includes a recommendation to a customer to obtain at least one of a product, a service, and information.

44. (New) A method for executing an interaction flow model as recited in Claim 6, wherein non-deterministically identifying the situation includes using a context description corresponding to event concepts required for the situation to occur.

45. (New) A method for executing an interaction flow model as recited in Claim 6, wherein a situation that matches the categorized received event is non-deterministically identified based on feedback from a consumer of the generated recommendation.

46. (New) A method for executing an interaction flow model as recited in Claim 7, wherein the distributed information service receives events via an architected contract.

47. (New) A method for executing an interaction flow model as recited in Claim 9, wherein the decide action is a branch in the interaction flow model.